

Coolants based on 1,3-propanediol and containing azole derivatives for fuel cell cooling systems

Abstract

- 5 Antifreeze concentrates for cooling systems in fuel cell drives, from which ready-to-use aqueous coolant compositions having a conductivity of not more than 50 $\mu\text{S}/\text{cm}$ result, based on 1,3-propanediol or mixtures of 1,3-propanediol with alkylene glycols and/or derivatives thereof, containing one or more five-membered heterocyclic compounds (azole derivatives) having 2 or 3 hetero atoms from the group consisting of nitrogen and sulfur, which contain no sulfur atom or
- 10 not more than one sulfur atom and which may carry an aromatic or saturated six-membered fused moiety.